

SP Series

AGV Tow Tractor

SP60





Introduction

Multiway AGV Tow Tractor is very important for transportation in regional intralogistics and material circulation among different workshops. It is widely used in industrial parks, airports, automobiles, postal service and other industries. It provides all-weather and all-scenario intelligent handling solutions. Connecting and combining with other mechanical carriers, it can meet the needs of hauling and handling cargoes within 6 tons.

This AGV tow tractor supports multiple navigation methods such as laser SLAM/laser reflector hybrid navigation, and it has functions such as environmental perception, autonomous navigation, automatic operation, and safety protection. The car body can be completely enclosed, adapting to harsh weather such as wind, frost, rain, and snow, efficiently meeting production rhythm requirements. It not only achieves the automation of material transportation, but also improves the overall intralogistics efficiency and frees employees from repetitive and dangerous work, thereby ensuring safe and efficient work and reducing corporate costs.

Features



Environment Adaptive

With laser navigation and positioning, there's no need to renovate the on-site environment.



Large Tonnage Traction

0~6 tons towing weight
Automated connection of various carriers



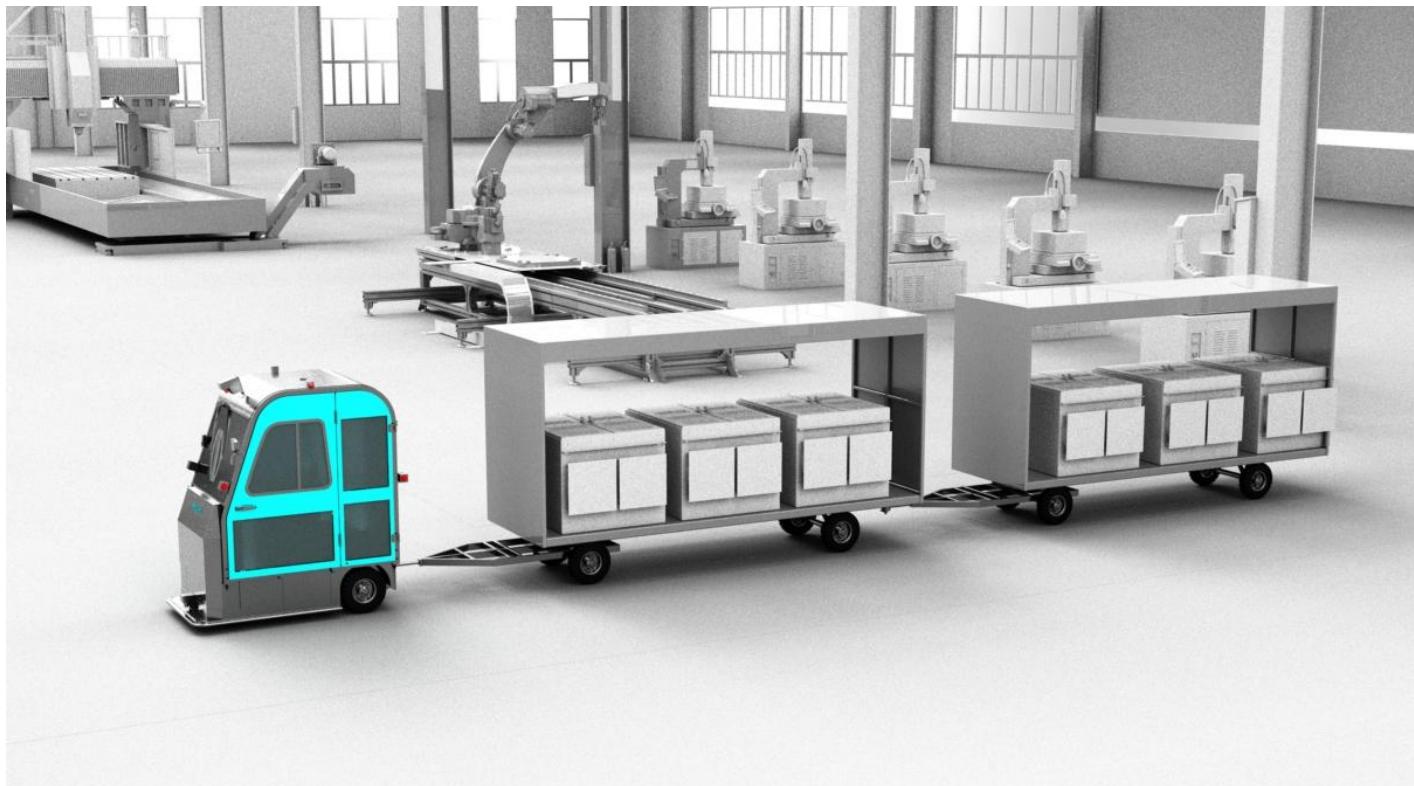
Work 24/7, Regardless of Wind or Snow

Enclosed vehicle body to adapt to bad weather
All-weather, all-scenario intelligent handling



Intelligent Safety

Comprehensive fault self-detection
360° obstacle avoidance and sound & light warning.



Value Provided

Improved Transportation Efficiency

The AGV tow tractor can provide automated towing of large-load cargo within 6 tons. It can tow two vans at a time, significantly improving handling efficiency during long-distance transportation in the industrial park.

Full-process Automated Operation

There is no need to equip a safety officer during driving, which solves driver management problems and saves operating costs. Driving routes can be flexibly adjusted according to the on-site environment to respond to emergencies effectively and ensure safety.

24/7 All-scenario Intelligent handling

It can operate smoothly in rainy, snowy, windy and other weather conditions, and avoid obstacles independently. Its automated operation can achieve 24/7 all-scenario transportation, and fully meet the handling needs of factories.

Specifications

| | | |
|-------------------------|--|----------------------------|
| Navigation | Laser/ S/ Mixed | ● |
| | Key Navigation | ○ |
| | GPS Navigation | ○ |
| Communication | Wi-Fi | ● |
| | Optical Communication | ○ |
| | 5G | ○ |
| Basic Specifications | Rated Towing Load (kg) | 6000 |
| | Rated Towing Hook Traction Force (N) | 1200 |
| | Dimensions L×W×H (mm) | 1980×1200×2260 |
| | Turning Radius (mm) | 3500 |
| | Cross-Groove Capability (mm) | ≤30 |
| | Climbing Capacity | ≤3° (5%) |
| | Weight (kg) | 1300 |
| Movement Specifications | Driving Features | Forward, Reverse, and Turn |
| | Automatic Hooking (visual correction) | ○ |
| | Max Driving Speed (m/s) | 1.5 |
| | Stop Angle (Center of bearing wheel) (°) | ±1 |
| | Positioning precision (mm) | ±20 |
| Safety Protection | Auto/Manual | ● |
| | Path Deviation Protection, Positioning Fault Protection | ● |
| | Component Fault Protection, Communication Fault Protection | ● |
| | Bottom Obstacle Avoidance Radar | ● |
| | Stereo Obstacle Avoidance | ● |
| | Fork Head Anti-Collision Detection | ● |
| | Anti-Collision Strip | ● |
| | Emergency Stop Button | ● |
| | Sound & Light (Warning) | ● |
| | HMI | ● |
| Battery Specifications | Charging Mode | Auto/Manual |
| | Battery Type (Standard) | Lithium Iron Phosphate |
| | Standard Capacity (Ah) | 300Ah |
| | Discharge Rate/Runtime (h) | 8h |
| | Automatic charger specifications | 48V150A |
| | Manual charging pile specifications | 48V50A |

● Standard ○ Optional

Note: In the real-time update of product parameters, the above parameters are for reference only and shall prevail.

Recommended Market

Automobile & Accessories, Food, Mechanical Machining, Medical Equipment, Aerospace, Printing & Packaging, Express Delivery industries



Automobile & Auto Parts



Food



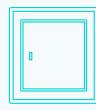
Machining



Medical Equipment



Aerospace



Building Materials



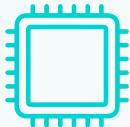
New Energy



Apparel Industry



Cold Chain Distribution



Microelectronics Manufacturing



Hardware Products



E-commerce Logistics



Military Industry



Printing & Packaging



Express Delivery



Home Appliances

Multiway Robotics

Multiway Robotics, a leading intelligent intralogistics solution provider, is dedicated to improve intralogistics efficiency, ensure work safety and reduce labor operational cost.

Global Presence: The headquarters is located in Shenzhen, China, with production facilities in Zhejiang. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 30+ countries and regions worldwide.

Our Expertise: Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass Multiway Cloud, WMS, RCS, WCS, on-site management systems, and various visual solutions.

Software: WMS, RCS, WCS, Multiway Cloud, Horizons, Simulation

Hardware: AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.



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